

CLAIMS

- 1 1. A mass flowmeter, operating by the Coriolis principle, with an enclosure, a
2 Coriolis line and a connection for connecting the mass flowmeter to a port of a pipeline
3 system, wherein said connection includes a connecting element and, separately, a
4 mounting element, the connecting element is welded to one end of the Coriolis line and
5 serves to establish a conductive connection between the Coriolis line and the pipeline
6 system via the port of the pipeline system, and the mounting element is firmly attached to
7 the enclosure of the mass flowmeter and serves to attach the mass flowmeter to the port
8 of the pipeline system.
- 1 2. The mass flowmeter as in claim 1, wherein the connecting element consists of the
2 same material as the Coriolis line, that material preferably being titanium.
- 1 3. The mass flowmeter as in claim 1 or 2, wherein the material of the mounting ele-
2 ment is different from the material of the connecting element.
- 1 4. The mass flowmeter as in claim 1 or 2, wherein the connecting element is
2 mounted onto one end of the Coriolis line and is provided at its free end with a sealing
3 surface that bears on the port of the pipeline system preferably with the interpositioning
4 of a gasket.
- 1 5. The mass flowmeter as in claim 1 or 2, wherein the mounting element is screwed
2 onto the enclosure of the mass flowmeter.
- 1 6. A mass flowmeter, with an enclosure, a Coriolis line and a connection for con-
2 necting the mass flowmeter to a port of a pipeline system, wherein said connection in-
3 cludes a connecting element and a reinforcing element, the reinforcing element is
4 mounted on one end of the Coriolis line and is attached to the enclosure of the mass
5 flowmeter, and the connecting element is welded to the Coriolis line and to the reinforc-

6 ing element while also serving to establish a conductive connection between the Coriolis
7 line and the pipeline system via the port of the pipeline system.

1 7. The mass flowmeter as in claim 6, wherein separate from the connecting element,
2 a retaining element is provided by means of which the reinforcing element is attached to
3 the enclosure of the mass flowmeter.

1 8. The mass flowmeter as in claim 7, wherein the retaining element is screwed onto
2 the enclosure.

1 9. The mass flowmeter as in claim 8, wherein the reinforcing element is clamped
2 onto the enclosure by means of the retaining element.

1 10. The mass flowmeter as in one of the claims 7 to 9, wherein the retaining element
2 consists of a different material from the reinforcing element.

1 11. The mass flowmeter as in one of the claims 6 to 9, wherein the connecting ele-
2 ment and/or the reinforcing element consist(s) of the same material as the Coriolis line,
3 that material preferably being titanium.

1 12. The mass flowmeter as in one of the claims 6 to 9, wherein the reinforcing ele-
2 ment completely surrounds the Coriolis line over its entire circumference.

1 13. The mass flowmeter as in one of the claims 6 to 9, wherein the inner surface of
2 the reinforcing element is in full contact with the outside surface of the Coriolis line.

1 14. The mass flowmeter as in claim 1 or 6, wherein the connection of the mass flow-
2 meter and the port of the pipeline system are designed as food-handling connection sys-
3 tems.